

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number  
**WO 2004/065932 A3**

(51) International Patent Classification<sup>7</sup>:  
A01N 31/04, C12Q 1/68, G01N 33/567

(21) International Application Number:  
PCT/US2004/001162

(22) International Filing Date: 18 January 2004 (18.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/440,717 17 January 2003 (17.01.2003) US

(71) Applicant (for all designated States except US): **THE JOHNS HOPKINS UNIVERSITY** [US/US]; 100 N. Charles Street, 5th Floor, Baltimore, MD 20201 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROTHSTEIN, Jeffrey, D.** [US/US]; 200 Prak Drive, Catonsville, MD 21228 (US). **RUGGERIO, Alicia** [US/US]; 1914 Otter Creek Road, Nashville, TN 37215 (US).

(74) Agent: **HAILE, Lisa, A.**; DLA Piper Rudnick Gray Cary US LLP, Suite 1100, 4365 Executive Drive, San Diego, CA 92121-2133 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
30 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF IDENTIFYING MODULATORS OF CELLULAR GLYCOSYLATION USING GTRAP3-18

(57) Abstract: The present invention provides methods and compositions for identifying compounds which modulate cellular glycosylation. The invention further provides methods for treating subjects suffering from or at risk of developing a glycosylation associated disorder.



WO 2004/065932 A3